



April 3, 2019

City of Lakewood

12650 Detroit Avenue
Lakewood, Ohio 44107

RE: **Pre-Renovation Asbestos and Hazardous Materials Assessment**

Former Cove United Methodist Church, 12525 Lake Avenue; Lakewood, Ohio 44107
OH42564

Description of Work

EA Group, Mentor, Ohio was contracted by the City of Lakewood to conduct a pre-renovation hazardous materials assessment of the former Cove United Methodist Church at 12525 Lake Avenue in Lakewood, Ohio. The assessment activities included a survey for asbestos-containing materials (ACMs); an inventory of non-incandescent lighting, mercury-containing devices and other “universal waste” materials, including equipment that may contain regulated refrigerants; and, a visual inspection for obvious evidence of fungal (mold) growth on building materials. Surveying and sampling activities were performed on March 12, 2019 by EA Group representatives Corey Falatic and Scott Landis. This report provides the results of the pre-renovation hazardous materials assessment.

Asbestos Survey

EA Group’s licensed Asbestos Hazard Evaluation Specialists Corey Falatic, ES36126, and Scott Landis, ES31801, inspected the building, developed a sampling strategy, and procured bulk samples of suspect ACMs on March 12, 2019. Homogeneous areas of suspect ACM are identified on the *Asbestos Inspection Data Sheet* forms in Appendix A. General room/area designations and sampling locations for the survey are identified on a schematic, also in Appendix A. Classification of any positively identified ACM has been made per National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations, with additional notations for Occupational Safety and Health Administration (OSHA) compliance purposes, if warranted.

Objective and Limitations of the Inspection

The objective of this survey was to identify and sample suspect ACM in the former Cove United Methodist Church at 12525 Lake Avenue in Lakewood, Ohio, pursuant to NESHAP and OSHA regulations.

Some materials could not be sampled without causing unacceptable damage (e.g., fire-rated door cores, chalk/wall board mastics, roofing materials). These are identified as assumed ACMs.



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GENERAL LIMITATIONS

1. EA Group cannot guarantee that all ACM has been identified by this survey.
2. Additional asbestos materials, not previously identified or quantified, are frequently encountered during renovation or demolition.
3. Actual quantities of asbestos material may vary from any estimates provided in EA Group's report due to identification of additional materials and difficulties in quantifying hidden or inaccessible materials.
4. Prior to demolition or renovation of any structure or equipment, suspect materials that were previously inaccessible or excluded from sampling should be sampled and analyzed for asbestos.

Asbestos Analysis

The bulk samples were analyzed by polarized light microscopy for asbestos content at or through the Laboratory Division of EA Group, which is accredited by the National Institute of Standards and Technology – National Voluntary Laboratory Accreditation Program. The United States Environmental Protection Agency requires all materials containing greater than one percent asbestos by weight to be considered asbestos-containing materials. Composite or layered analyses were performed, depending on the nature of the material, with additional analysis (point-counting) if an initial analysis indicated less than 10% asbestos. Analytical results are provided in Appendix A.

Results of Asbestos Analysis

The materials that were sampled and that were determined to be ACM are identified in Table 1, attached, which also shows the materials that were determined to be non-ACM, at least by EPA definition, and the assumed ACMs.

It is noted that for the flooring materials identified as Group T, the floor tile component was determined to be non-ACM (no asbestos detected) whereas the mastic component was confirmed ACM. For removal purposes, the Group as a whole is considered ACM because the asbestos-containing mastic will adhere to the floor tiles.

Samples of one specific flooring material [Group G] were determined to contain trace ($\leq 1\%$) asbestos in the floor tile component, following point-counting (no asbestos in the mastic component). Although this Group is considered non-ACM by EPA definition, OSHA regulates potential employee exposure to any amount of asbestos, including "trace" concentrations. Consequently, any renovation activities that would affect this specific material could still be governed under OSHA regulations, requiring appropriate worker protection and procedures when handling the materials, but would not be



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regulated under other EPA regulations, and any waste generated would not be considered asbestos-containing waste. It is critical that this information is provided to any individual or contractor who is expected to disturb the indicated materials. The occurrences of this material are identified by the notation "0,B[FT]" under the "Results" column on the *Asbestos Inspection Data Sheet* forms.

Estimated removal costs for the known and some of the assumed ACMs, based on *rough* estimates of quantities and assuming full removal, are provided in Table 2, attached. The estimates are provided solely as an illustration of the potential order of magnitude of abatement costs.

Non-Incandescent Lighting, "Universal Waste" Materials, and Refrigerants

The building was inspected for various universal waste-type materials that may need to be addressed prior to or as part of renovation activities. These consisted of non-incandescent lighting fixtures (fluorescent lamps and potential PCB ballasts); suspect mercury-containing equipment [MCE] (e.g., thermostats, switches); and, refrigerant units [refrigerators, A/C (air conditioning) units] that may contain regulated chlorofluorocarbon (CFC) refrigerant. Commercial entities that can manage or assist with managing these types of materials may be found at the new/revised Ohio EPA website "<https://recyclesearch.com/profile/ohioepa-recycling-directory>".

A total of 308 four-foot lamps, with approximately 156 ballasts, which may or may not contain polychlorinated biphenyls (PCBs), and 20 compact fluorescent lamps (CFLs) were observed. These should all be provided for reclamation because of the mercury in the lamps and possible, although not likely, PCBs in the ballasts.

Two exit signs and two emergency lighting unit were noted. These typically have lead-containing rechargeable batteries [gel cells, sealed lead-acid] and if to be removed and disposed, they would need to be provided for reclamation.

Four suspect mercury-containing thermostats were noted, and these would need to be provided for reclamation, if to be replaced.

Two refrigerators and one air conditioning unit were observed, may contain regulated CFC refrigerant that would require special handling (extraction of CFCs) if these items are to be disposed.

No hazardous chemicals were observed. A number of containers of household cleaning supplies were observed in a storage closet. If they cannot be relocated for beneficial use elsewhere, disposal should be in accordance with manufacturers' recommendations.



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Preliminary Mold Inspection

An section of wall in the northwest corner of the basement, including the northwest stairs, was noted to be damp, with suspect mold growth observed. The nature and extent of the suspect mold should be assessed prior to disturbance of affected building materials and, more importantly, the source of the water intrusion should be identified and corrected.

If you have any questions or concerns regarding the above information, please contact the undersigned. Thank you for consulting EA Group.

Sincerely,

EA Group

A handwritten signature in blue ink that reads "Timothy S. Bowen" with a stylized flourish at the end.

Timothy S. Bowen,
Vice President/Technical Director

A handwritten signature in blue ink that reads "Corey Falatic" in a cursive style.

Corey Falatic
ES36126

A handwritten signature in blue ink that reads "Scott Landis" in a cursive style.

Scott Landis,
ES31801

Table 1 Summary of Results - Former Cove United Methodist Church

Group	ID # OH42564	MATERIAL DESCRIPTION	Material Type	RESULT
A	01	12"x12" Floor Tile & mastic; Beige w/ brown & white	M/NF1	0
A	02	12"x12" Floor Tile & mastic; Beige w/ brown & white	M/NF1	0
B	03	4" Cove Base & mastic; Brown	M/NF1	0
B	04	4" Cove Base & mastic; Brown	M/NF1	0
C	05	2'x2' Ceiling Panel; Fissure, Pinhole	M	[+],B
C	06	2'x2' Ceiling Panel; Fissure, Pinhole	M	[+],B
D	07	2'x4' Ceiling Panel; Fissure, Pinhole	M	[+],B
D	08	2'x4' Ceiling Panel; Fissure, Pinhole	M	[+],B
E	10	Carpet Mastic; tan	M/NF1	0
E	36	Carpet Mastic; tan	M/NF1	0
E	37	Carpet Mastic; tan	M/NF1	0
F	11	Drywall System; Walls/Ceiling	M/NF2	[+],B
F	12	Drywall System; Walls/Ceiling	M/NF2	[+],B
F	13	Drywall System; Walls/Ceiling	M/NF2	[+],B
G	14	12"x12" Floor Tile & mastic; Beige w/ white & light gray	M/NF1	0,B[FT]
G	15	12"x12" Floor Tile & mastic; Beige w/ white & light gray	M/NF1	0,B[FT]
H	16	4" Cove Base & mastic; Beige	M/NF1	0
H	17	4" Cove Base & mastic; Beige	M/NF1	0
I	18	12"x12" Floor Tile & mastic; Light Gray w/ white & brown	M/NF1	[+],B
I	19	12"x12" Floor Tile & mastic; Light Gray w/ white & brown	M/NF1	[+],B
J	20	4" Cove Base & mastic; Reddish-Brown	M/NF1	0
J	21	4" Cove Base & mastic; Reddish-Brown	M/NF1	0
K	22	2'x4' Ceiling Panel; Smooth (painted)	M	[+],B
K	23	2'x4' Ceiling Panel; Smooth (painted)	M	[+],B
L	24	12"x12" Floor Tile & mastic; Off-White w/ white & brown	M/NF1	[+],B
L	25	12"x12" Floor Tile & mastic; Off-White w/ white & brown	M/NF1	[+],B
M	26	1'x1' Ceiling Tile & mastic; Fissure, Pinhole	M	0
M	27	1'x1' Ceiling Tile & mastic; Fissure, Pinhole	M	0
N	28	Stair Tread & mastic; Reddish-Brown	M/NF1	0
N	29	Stair Tread & mastic; Reddish-Brown	M/NF1	0
O	30	4" Cove Base & mastic; Light Gray	M/NF1	0
O	31	4" Cove Base & mastic; Light Gray	M/NF1	0
P	32	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	M/NF1	[+],B
P	33	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	M/NF1	[+],B
Q	34	Carpet Adhesive; green	M/NF1	0
Q	35	Carpet Adhesive; green	M/NF1	0
S	38	2'x4' Ceiling Panel; Pockmark, Pinhole	M	0
S	39	2'x4' Ceiling Panel; Pockmark, Pinhole	M	0
T	40	12"x12" Floor Tile & mastic; White w/ gray	M/NF1	[+],B[M]
T	41	12"x12" Floor Tile & mastic; White w/ gray	M/NF1	[+],B[M]

Table 1 Summary of Results - Former Cove United Methodist Church

Group	ID # OH42564	MATERIAL DESCRIPTION	Material Type	RESULT
U	42	4" Cove Base & mastic; White	M/NF1	0
U	43	4" Cove Base & mastic; White	M/NF1	0
V	44	Sink Bottom Coating; Light Green	M/NF2	0
V	45	Sink Bottom Coating; Light Green	M/NF2	0
W	46	Drywall System; Walls	M/NF2	0
W	47	Drywall System; Walls	M/NF2	0
W	48	Drywall System; Walls	M/NF2	0
X	53	2'x4' Ceiling Tile & mastic; Fissure, Pockmark, Pinhole	M	0
X	54	2'x4' Ceiling Tile & mastic; Fissure, Pockmark, Pinhole	M	0
Y	49	9"x9" Floor Tile & mastic; Red/Brown w/ white	M/NF1	[+],B[FT]
Y	50	9"x9" Floor Tile & mastic; Red/Brown w/ white	M/NF1	[+],B[FT]
Z	Assumed	Fire-Rated Metal Door; Core	M	[+]
AA	Assumed	Chalk/Wall Board Mastic	M/NF2	[+]
AB	61	Window Caulking; Black	M/NF2	0
AB	62	Window Caulking; Black	M/NF2	0
AC	51	Unfinished Drywall; Ceiling	M/NF2	0
AC	52	Unfinished Drywall; Ceiling	M/NF2	0
AD	55	2'x2' Ceiling Panel; Random Pinhole	M	0
AD	56	2'x2' Ceiling Panel; Random Pinhole	M	0
AE	57	Masonite Board	M/NF2	0
AE	58	Masonite Board	M/NF2	0
AF	Assumed	Built-Up Roof, flat	M/NF1	[+]
AG	59	Door Caulking	M/NF2	0
AG	60	Door Caulking	M/NF2	0
AH	Assumed	Roofing Shingles	M/NF1	[+]

Group = Homogeneous Group identification

Material Type: S = Surfacing

T = Thermal System Insulation

M = Miscellaneous

NF1 = Non-Friable Category I

NF2 = Non-Friable Category II

Result: 0 = non-ACM

[+] = ACM

B = verified by layering & point-counting

[+][FT] = Floor Tile ACM; Mastic non-ACM

[+][M] = Floor Tile non-ACM; Mastic ACM

(Group as a whole considered ACM for removal purposes)

0,B = trace asbestos; non-ACM by EPA but OSHA may apply

0,B[FT] = trace asbestos in floor tile, none in mastic layer

No Sample -09

No Group R

Table 2. Estimated Cost for Removal of Known or Assumed ACMs
City of Lakewood
Former Cove United Methodist Church

[See NOTE regarding cost estimates]

RACM & Category II Non-Friable¹	H.G.	Units	Estimated Cost Range
Drywall System; Walls/Ceiling	F	6,888 SF	\$21,000 - \$28,000
2'x2' Ceiling Panel; Fissure, Pinhole	C	4,155 SF	\$8,300 - \$17,000
2'x4' Ceiling Panel; Fissure, Pinhole	D	9,416 SF	\$19,000 - \$38,000
2'x4' Ceiling Panel; Smooth (painted)	K	784 SF	\$1,600 - \$3,000
<i>Chalk/Wall Board Mastic</i>	AA	288 SF	\$900 - \$1,700
<i>Fire-Rated Metal Door; Core</i>	Z	35 EA	\$700 - \$1,800
Sub-Total			\$50,000 - \$90,000

Category I Non-Friable¹	H.G.	Units	Estimated Cost Range
12"x12" Floor Tile & mastic; Light Gray w/ white & brown	I	2,027 SF	\$2,000 - \$6,000
12"x12" Floor Tile & mastic; Off-White w/ white & brown	L	784 SF	\$800 - \$2,400
12"x12" Floor Tile & mastic; Off-White w/ gray & brown	P	2,337 SF	\$2,300 - \$7,000
12"x12" Floor Tile & mastic; White w/ gray	T	79 SF	\$100 - \$240
9"x9" Floor Tile & mastic; Red/Brown w/ white	Y	50 SF	\$50 - \$150
Sub-Total			\$5,000 - \$16,000
<i>Built-Up Roof, flat</i>	AF	#N/A SF	#N/A - #N/A
<i>Roofing Shingles</i>	AH	#N/A SF	#N/A - #N/A

H.G. = homogeneous group

RACM = Regulated ACM, by definition

¹ = specific material removal technique may exclude from classification as RACM

Materials in *italics* are *assumed* ACMs

NOTE: Unit cost ranges for various materials are based on known historical bidding results.

Unit costs and estimated cost totals in this table are estimates only, based on *rough* estimates of quantities, assuming full removal, and do not represent project specific cost estimates.

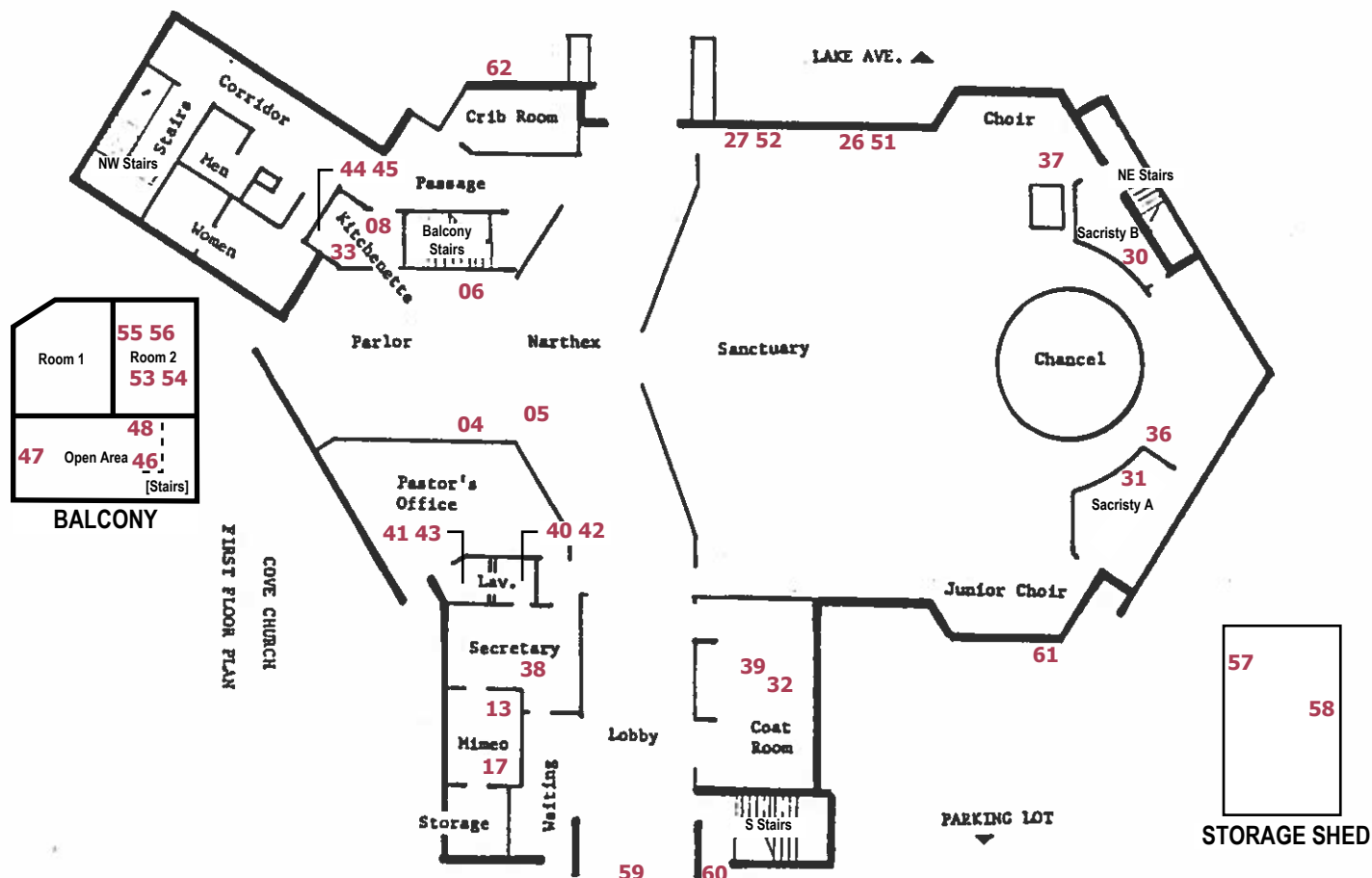
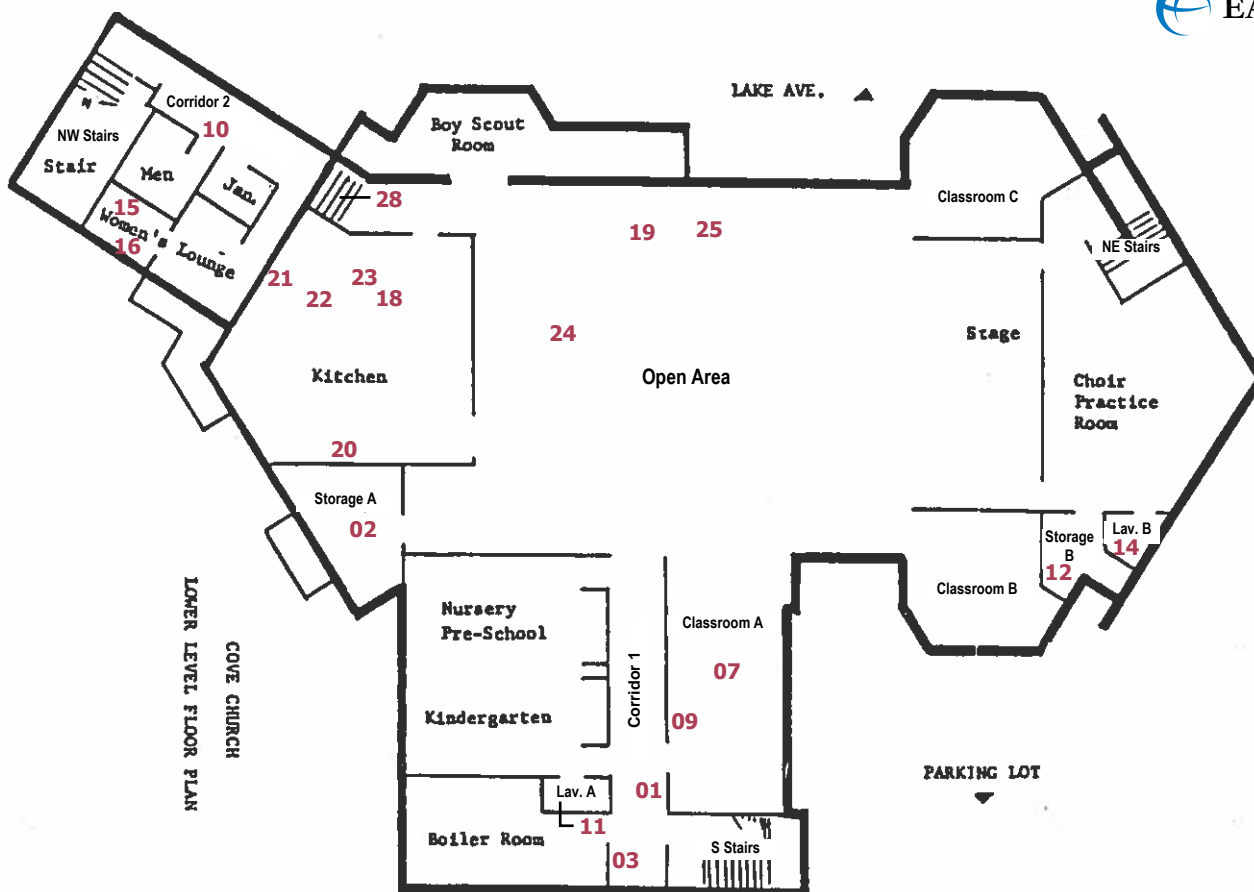


APPENDIX A

General Sample Locations Schematic(s)
and
Asbestos Inspection Data Sheet(s)

ASBESTOS INSPECTION DATA SHEET KEY

Client and Project:	Information provided by either Work Order or Scope of Work
Building:	Name or address of building.
Functional Space:	A room, group of rooms, or homogeneous area designated by the inspector to prepare management plans, design abatement projects, or conduct response actions.
Location:	Location of homogeneous material being sampled or occurrence of homogeneous material.
Group:-	An arbitrary designation (number or letter) assigned to each homogeneous material (material that is uniform in color and texture, serves the same function, and was installed at the same time) encountered during sampling.
ID #:	A sample number assigned by the inspector which begins with the work order number (OHXXXXX) at the top of the column and then a unique sample number for each sample. May include an additional suffix (e.g., building ID, sampling date).
Material Description:	Distinguishing characteristics that may include system type, function, size, color, shape etc.
Quantity:	Defined as square feet (SF) [default], linear feet (LF), or individual number of fittings or miscellaneous items, each (EA)
Material Type:	Abbreviations provided on the form as: S Surfacing Material (troweled or sprayed-on) T Thermal System Insulation (TSI) M Miscellaneous (Friable, unless otherwise noted): NF1 - Non-friable Category I NF2 - Non-friable Category II
Material Condition:	Typically noted only for general surveys (e.g., for O&M planning purposes). ND No Damage. The material is in visibly good condition with no apparent/obvious damage. D Damage. Material has damage to less than 10% of the entire homogeneous group or less than 25% of a localized section of the homogeneous group. SD Significant Damage. Material has damage to greater than 10% of the entire homogeneous group or greater than 25% of a localized section of the homogeneous group.
Friable:	When dry, an asbestos-containing material [ACM] is considered friable if it can be crumbled, pulverized, or reduced to powder by <i>hand pressure</i>
Result:	0 = material determined to be non-ACM (no asbestos); [+] = material determined to contain a regulated amount of asbestos (confirmed ACM) Additional notations may be included for specific samples or materials for further clarification, which would be defined under "Comments"



ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood			12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church				
Project: Pre-Renovation Asbestos Survey					Functional Space: Basement				
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Corridor 1	C	---	2'x2' Ceiling Panel; Fissure, Pinhole	190	M		Y	[+],B	
	A	01	12"x12" Floor Tile & mastic; Beige w/ brown & white					0	
	B	03	4" Cove Base & mastic; Brown					0	
Classroom A	D	07	2'x4' Ceiling Panel; Fissure, Pinhole	420	M		Y	[+],B	
	E	---	Carpet Mastic; tan					0	
Boiler Room									NO SUSPECT ACM
Lavatory A	F	11	Drywall System; Walls/Ceiling	198	M/NF2		N	[+],B	
	G	---	12"x12" Floor Tile & mastic; Beige w/ white & light gray					0,B[FT]	
	H	---	4" Cove Base & mastic; Beige					0	
Kindergarten Nursery/Pre-School	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	528	M		Y	[+],B	
	E	---	Carpet Mastic; tan					0	
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage		<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each NQ = not quantified <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		<u>COMMENTS:</u> All Basement areas have concrete walls & metal deck ceilings unless otherwise noted Quantities of known and assumed ACMs are rough estimates only [+] [FT] = Floor Tile ACM; Mastic non-ACM [+] [M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes) 0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply 0,B[FT] = trace asbestos in floor tile, none in mastic layer [No Sample -09; no Group R]					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis		ES 36126 ES 31801		EAG OH42564 Page 1 of 14		
			Survey Date(s): March 11 & 12, 2019						

ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood			12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church				
Project: Pre-Renovation Asbestos Survey					Functional Space: Basement				
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Storage A	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	130	M		Y	[+],B	
	A	02	12"x12" Floor Tile & mastic; Beige w/ brown & white					0	
	B	---	4" Cove Base & mastic; Brown					0	
Kitchen	K	22, 23	2'x4' Ceiling Panel; Smooth (painted)	784	M		Y	[+],B	
	I	18	12"x12" Floor Tile & mastic; Light Gray w/ white & brown	784	M/NF1		N	[+],B	
	J	20, 21	4" Cove Base & mastic; Reddish-Brown					0	
Open Area, incl. Stage	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	2795	M		Y	[+],B	
	I	19	12"x12" Floor Tile & mastic; Light Gray w/ white & brown	930	M/NF1		N	[+],B	
	L	24, 25	12"x12" Floor Tile & mastic; Off-White w/ white & brown	1865	M/NF1		N	[+],B	
	B	---	4" Cove Base & mastic; Brown					0	
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage		<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each NQ = not quantified <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		<u>COMMENTS:</u> All Basement areas have concrete walls & metal deck ceilings unless otherwise noted Quantities of known and assumed ACMs are rough estimates only [+] [FT] = Floor Tile ACM; Mastic non-ACM [+] [M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes) 0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply 0,B[FT] = trace asbestos in floor tile, none in mastic layer [No Sample -09; no Group R]					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis Survey Date(s): March 11 & 12, 2019		ES 36126 ES 31801		EAG OH42564 Page 2 of 14		

ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood			12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church				
Project: Pre-Renovation Asbestos Survey					Functional Space: Basement				
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Classroom B	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	208	M		Y	[+],B	
	A	---	12"x12" Floor Tile & mastic; Beige w/ brown & white					0	
	B	---	4" Cove Base & mastic; Brown					0	
Storage B	F	12	Drywall System; Walls/Ceiling	250	M/NF2		N	[+],B	
Lavatory B	F	---	Drywall System; Walls/Ceiling	276	M/NF2		N	[+],B	
	G	14	12"x12" Floor Tile & mastic; Beige w/ white & light gray					0,B[FT]	
	H	---	4" Cove Base & mastic; Beige					0	
Choir Practice Room	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	288	M		Y	[+],B	
	M	---	1'x1' Ceiling Tile & mastic; Fissure, Pinhole					0	
	I	---	12"x12" Floor Tile & mastic; Light Gray w/ white & brown	288	M/NF1		N	[+],B	
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage		<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each NQ = not quantified <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		<u>COMMENTS:</u> All Basement areas have concrete walls & metal deck ceilings unless otherwise noted Quantities of known and assumed ACMs are rough estimates only [+] [FT] = Floor Tile ACM; Mastic non-ACM [+] [M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes) 0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply 0,B[FT] = trace asbestos in floor tile, none in mastic layer [No Sample -09; no Group R]					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis		ES 36126 ES 31801		EAG OH42564 Page 3 of 14		
			Survey Date(s): March 11 & 12, 2019						

ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood			12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church				
Project: Pre-Renovation Asbestos Survey					Functional Space: Basement				
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Classroom C	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	256	M		Y	[+],B	
	A	---	12"x12" Floor Tile & mastic; Beige w/ brown & white					0	
	B	---	4" Cove Base & mastic; Brown					0	
Boy Scout Room									NO SUSPECT ACM
Corridor 2, incl. N Stairs	E	10	Carpet Mastic; tan					0	
	N	28	Stair Tread & mastic; Reddish-Brown					0	
Women's Restroom, incl. Lounge	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	160	M		Y	[+],B	
	E	---	Carpet Mastic; tan					0	
	G	15	12"x12" Floor Tile & mastic; Beige w/ white & light gray					0,B[FT]	
	H	16	4" Cove Base & mastic; Beige					0	
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage			<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each NQ = not quantified <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting			<u>COMMENTS:</u> All Basement areas have concrete walls & metal deck ceilings unless otherwise noted Quantities of known and assumed ACMs are rough estimates only [+] [FT] = Floor Tile ACM; Mastic non-ACM [+] [M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes) 0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply 0,B[FT] = trace asbestos in floor tile, none in mastic layer [No Sample -09; no Group R]			
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis		ES 36126 ES 31801		EAG OH42564 Page 4 of 14		
			Survey Date(s): March 11 & 12, 2019						

ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood			12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church				
Project: Pre-Renovation Asbestos Survey					Functional Space: Basement				
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Men's Restroom	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	80	M		Y	[+],B	
	G	---	12"x12" Floor Tile & mastic; Beige w/ white & light gray					0,B[FT]	
	H	---	4" Cove Base & mastic; Beige					0	
Janitor Closet	F	---	Drywall System; Walls/Ceiling	225	M/NF2		N	[+],B	
	I	---	12"x12" Floor Tile & mastic; Light Gray w/ white & brown	25	M/NF1		N	[+],B	
	B	---	4" Cove Base & mastic; Brown					0	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each NQ = not quantified FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: All Basement areas have concrete walls & metal deck ceilings unless otherwise noted Quantities of known and assumed ACMs are rough estimates only [+][FT] = Floor Tile ACM; Mastic non-ACM [+][M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes) 0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply 0,B[FT] = trace asbestos in floor tile, none in mastic layer [No Sample -09; no Group R]					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis		ES 36126 ES 31801		EAG OH42564		
			Survey Date(s): March 11 & 12, 2019		Page 5 of 14				

ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood			12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church				
Project: Pre-Renovation Asbestos Survey					Functional Space: Ground Floor				
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Sacristy A	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	240	M		Y	[+],B	
	F	---	Drywall System; Walls/Ceiling	160	M/NF2		N	[+],B	
	P	---	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	240	M/NF1		N	[+],B	
	O	31	4" Cove Base & mastic; Light Gray					0	
Sacristy B	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	240	M		Y	[+],B	
	F	---	Drywall System; Walls/Ceiling	160	M/NF2		N	[+],B	
	P	---	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	240	M/NF1		N	[+],B	
	O	30	4" Cove Base & mastic; Light Gray					0	
Chancel	Q	34, 35	Carpet Adhesive; green					0	[wood panel walls, ceiling; stone walls]
Sanctuary, incl. Junior Choir area	M	26, 27	1'x1' Ceiling Tile & mastic; Fissure, Pinhole					0	[wood panel + stone walls]
	AC	51, 52	Unfinished Drywall; Ceiling					0	
	E	36	Carpet Mastic; tan					0	
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage		<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each NQ = not quantified <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		<u>COMMENTS:</u> All Basement areas have concrete walls & metal deck ceilings unless otherwise noted Quantities of known and assumed ACMs are rough estimates only [+] [FT] = Floor Tile ACM; Mastic non-ACM [+] [M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes) 0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply 0,B[FT] = trace asbestos in floor tile, none in mastic layer [No Sample -09; no Group R]					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis		ES 36126 ES 31801		EAG OH42564 Page 6 of 14		
			Survey Date(s): March 11 & 12, 2019						

ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood			12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church				
Project: Pre-Renovation Asbestos Survey					Functional Space: Ground Floor				
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Choir Area	E	37	Carpet Mastic; tan					0	[wood panel walls, ceiling; stone walls]
Narthex	C	05	2'x2' Ceiling Panel; Fissure, Pinhole	2500	M		Y	[+],B	[wood panel walls]
	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	2500	M		Y	[+],B	
	E	---	Carpet Mastic; tan					0	
	B	---	4" Cove Base & mastic; Brown					0	
Lobby, incl. Waiting area	C	---	2'x2' Ceiling Panel; Fissure, Pinhole	225	M		Y	[+],B	
	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	225	M		Y	[+],B	
	M	---	1'x1' Ceiling Tile & mastic; Fissure, Pinhole					0	
	P	---	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	450	M/NF1		N	[+],B	
	O	---	4" Cove Base & mastic; Light Gray					0	
	H	---	4" Cove Base & mastic; Beige					0	
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage		<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each NQ = not quantified <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		<u>COMMENTS:</u> All Basement areas have concrete walls & metal deck ceilings unless otherwise noted Quantities of known and assumed ACMs are rough estimates only [+] [FT] = Floor Tile ACM; Mastic non-ACM [+] [M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes) 0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply 0,B[FT] = trace asbestos in floor tile, none in mastic layer [No Sample -09; no Group R]					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis		ES 36126 ES 31801		EAG OH42564 Page 7 of 14		
			Survey Date(s): March 11 & 12, 2019						

ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood			12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church				
Project: Pre-Renovation Asbestos Survey					Functional Space: Ground Floor				
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Coat Room	S	39	2'x4' Ceiling Panel; Pockmark, Pinhole					0	
	F	---	Drywall System; Walls/Ceiling	500	M/NF2		N	[+],B	
	P	32	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	150	M/NF1		N	[+],B	
	H	---	4" Cove Base & mastic; Beige					0	
Secretary	S	38	2'x4' Ceiling Panel; Pockmark, Pinhole					0	
	F	---	Drywall System; Walls/Ceiling	480	M/NF2		N	[+],B	
	E	---	Carpet Mastic; tan					0	
	B	---	4" Cove Base & mastic; Brown					0	
Mimeo, incl. Storage	S	---	2'x4' Ceiling Panel; Pockmark, Pinhole					0	
	F	13	Drywall System; Walls/Ceiling	600	M/NF2		N	[+],B	
	P	---	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	216	M/NF1		N	[+],B	
	H	17	4" Cove Base & mastic; Beige					0	
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage		<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each NQ = not quantified <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		<u>COMMENTS:</u> All Basement areas have concrete walls & metal deck ceilings unless otherwise noted Quantities of known and assumed ACMs are rough estimates only [+][FT] = Floor Tile ACM; Mastic non-ACM [+][M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes) 0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply 0,B[FT] = trace asbestos in floor tile, none in mastic layer [No Sample -09; no Group R]					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis		ES 36126 ES 31801		EAG OH42564 Page 8 of 14		
			Survey Date(s): March 11 & 12, 2019						

ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood			12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church				
Project: Pre-Renovation Asbestos Survey					Functional Space: Ground Floor				
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Lavatory	F	---	Drywall System; Walls/Ceiling	354	M/NF2		N	[+],B	
	T	40	12"x12" Floor Tile & mastic; White w/ gray	54	M/NF1		N	[+],B[M]	
	U	42	4" Cove Base & mastic; White					0	
Pastor's Office	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	575	M		Y	[+],B	
	F	---	Drywall System; Walls/Ceiling	960	M/NF2		N	[+],B	
	E	---	Carpet Mastic; tan					0	
Pastor's Office Closet	F	---	Drywall System; Walls/Ceiling	225	M/NF2		N	[+],B	
	T	41	12"x12" Floor Tile & mastic; White w/ gray	25	M/NF1		N	[+],B[M]	
	U	43	4" Cove Base & mastic; White					0	
Parlor	C	06	2'x2' Ceiling Panel; Fissure, Pinhole	600	M		Y	[+],B	[wood panel + stone walls]
	F	---	Drywall System; Walls/Ceiling	300	M/NF2		N	[+],B	
	E	---	Carpet Mastic; tan					0	
	B	04	4" Cove Base & mastic; Brown					0	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each NQ = not quantified FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: All Basement areas have concrete walls & metal deck ceilings unless otherwise noted Quantities of known and assumed ACMs are rough estimates only [+][FT] = Floor Tile ACM; Mastic non-ACM [+][M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes) 0,B = trace ($\leq 1\%$) asbestos; non-ACM by EPA but OSHA may apply 0,B[FT] = trace asbestos in floor tile, none in mastic layer [No Sample -09; no Group R]					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis Survey Date(s): March 11 & 12, 2019		ES 36126 ES 31801		EAG OH42564 Page 9 of 14		

ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood				12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church			
Project: Pre-Renovation Asbestos Survey						Functional Space: Ground Floor			
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Kitchenette	D	08	2'x4' Ceiling Panel; Fissure, Pinhole	192	M		Y	[+],B	
	F	---	Drywall System; Walls/Ceiling	500	M/NF2		N	[+],B	
	P	33	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	192	M/NF1		N	[+],B	
	H	---	4" Cove Base & mastic; Beige					0	
	V	44, 45	Sink Bottom Coating; Light Green					0	
Corridor + Passage	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	330	M		Y	[+],B	[wood panel walls]
	F	---	Drywall System; Walls/Ceiling	550	M/NF2		N	[+],B	
	P	---	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	330	M/NF1		N	[+],B	
	H	---	4" Cove Base & mastic; Beige					0	
Crib Room	F	---	Drywall System; Walls/Ceiling	760	M/NF2		N	[+],B	[wood panel ceiling]
	B	---	4" Cove Base & mastic; Brown					0	[tacked-down carpeting]
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage		<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each NQ = not quantified <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		<u>COMMENTS:</u> All Basement areas have concrete walls & metal deck ceilings unless otherwise noted Quantities of known and assumed ACMs are rough estimates only [+] [FT] = Floor Tile ACM; Mastic non-ACM [+] [M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes) 0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply 0,B[FT] = trace asbestos in floor tile, none in mastic layer [No Sample -09; no Group R]					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis Survey Date(s): March 11 & 12, 2019		ES 36126 ES 31801		EAG OH42564 Page 10 of 14		

ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood				12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church			
Project: Pre-Renovation Asbestos Survey						Functional Space: Ground Floor			
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Women's Restroom, incl. Lounge	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	120	M		Y	[+],B	
	G	---	12"x12" Floor Tile & mastic; Beige w/ white & light gray					0,B[FT]	
	H	---	4" Cove Base & mastic; Beige					0	
Men's Restroom	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	104	M		Y	[+],B	[concrete walls]
	P	---	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	104	M/NF1		N	[+],B	
	H	---	4" Cove Base & mastic; Beige					0	
Janitor Closet	D	---	2'x4' Ceiling Panel; Fissure, Pinhole	25	M		Y	[+],B	[concrete walls]
	P	---	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	25	M/NF1		N	[+],B	
	H	---	4" Cove Base & mastic; Beige					0	
NW Stairs	C	---	2'x2' Ceiling Panel; Fissure, Pinhole	120	M		Y	[+],B	[CMU walls]
	P	---	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	120	M/NF1		N	[+],B	
	H	---	4" Cove Base & mastic; Beige					0	
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage		<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each NQ = not quantified <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		<u>COMMENTS:</u> All Basement areas have concrete walls & metal deck ceilings unless otherwise noted Quantities of known and assumed ACMs are rough estimates only [+] [FT] = Floor Tile ACM; Mastic non-ACM [+] [M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes) 0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply 0,B[FT] = trace asbestos in floor tile, none in mastic layer [No Sample -09; no Group R]					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis		ES 36126 ES 31801		EAG OH42564 Page 11 of 14		
			Survey Date(s): March 11 & 12, 2019						

ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood			12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church				
Project: Pre-Renovation Asbestos Survey					Functional Space: Ground Floor				
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
NE Stairs	C	---	2'x2' Ceiling Panel; Fissure, Pinhole	150	M		Y	[+],B	[CMU walls]
	F	---	Drywall System; Walls/Ceiling	150	M/NF2		N	[+],B	
	P	---	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	150	M/NF1		N	[+],B	
	H	---	4" Cove Base & mastic; Beige					0	
S Stairs	C	---	2'x2' Ceiling Panel; Fissure, Pinhole	250	M		Y	[+],B	[CMU walls]
	A	---	12"x12" Floor Tile & mastic; Beige w/ brown & white					0	
	P	---	12"x12" Floor Tile & mastic; Off-White w/ gray & brown	120	M/NF1		N	[+],B	
	Y	49, 50	9"x9" Floor Tile & mastic; Red/Brown w/ white	50	M/NF1		N	[+],B[FT]	
	N	29	Stair Tread & mastic; Reddish-Brown					0	
	B	---	4" Cove Base & mastic; Brown					0	
	H	---	4" Cove Base & mastic; Beige					0	
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><u>MATERIALS:</u></p> <p><u>TYPE:</u></p> <p>S - Surfacing</p> <p>T - Thermal</p> <p>M - Miscellaneous</p> <p>NF1 - Non-friable Cat. I</p> <p>NF2 - Non-friable Cat. II</p> <p>N/S = not suspect</p> <p><u>CONDITION:</u> [if relevant]</p> <p>ND - No Damage</p> <p>D - Damage</p> <p>SD - Significant Damage</p> </div> <div style="width: 30%;"> <p><u>QUANTITY</u> = Square Feet unless noted</p> <p>LF = Linear Feet; EA = each</p> <p>NQ = not quantified</p> <p><u>FRIABLE:</u></p> <p>Y = Regulated ACM (RACM) by definition</p> <p>N = not RACM by definition</p> <p>NF1/NF2 may be friable due to condition or may become friable during reno/demo</p> <p><u>RESULT:</u></p> <p>0 - Non-ACM</p> <p>[+] = ACM [no other assessment required]</p> <p>B = Verified by layering/point counting</p> </div> <div style="width: 35%;"> <p><u>COMMENTS:</u></p> <p>All Basement areas have concrete walls & metal deck ceilings unless otherwise noted</p> <p>Quantities of known and assumed ACMs are rough estimates only</p> <p>[+][FT] = Floor Tile ACM; Mastic non-ACM</p> <p>[+][M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes)</p> <p>0,B = trace ($\leq 1\%$) asbestos; non-ACM by EPA but OSHA may apply</p> <p>0,B[FT] = trace asbestos in floor tile, none in mastic layer</p> <p>[No Sample -09; no Group R]</p> </div> </div>									
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis		ES 36126 ES 31801		EAG OH42564 Page 12 of 14		
			Survey Date(s): March 11 & 12, 2019						

ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood			12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church				
Project: Pre-Renovation Asbestos Survey					Functional Space: Balcony [& throughout interior]				
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Balcony Stairs	C	---	2'x2' Ceiling Panel; Fissure, Pinhole	120	M		Y	[+],B	
	F	---	Drywall System; Walls/Ceiling	240	M/NF2		N	[+],B	
	Q	---	Carpet Adhesive; green					0	
Open Area	W	46, 47, 48	Drywall System; Walls					0	
Room 1	X	---	2'x4' Ceiling Tile & mastic; Fissure, Pockmark, Pinhole					0	[tacked-down carpeting]
	AC	---	Unfinished Drywall; Ceiling					0	
	W	---	Drywall System; Walls					0	
Room 2	AD	55, 56	2'x2' Ceiling Panel; Random Pinhole					0	[tacked-down carpeting]
	X	53, 54	2'x4' Ceiling Tile & mastic; Fissure, Pockmark, Pinhole					0	
	AC	---	Unfinished Drywall; Ceiling					0	
	W	---	Drywall System; Walls					0	
throughout Interior	Z	Assumed	Fire-Rated Metal Door; Core	735 [35 EA]	M		Y	[+]	
	AA	Assumed	Chalk/Wall Board Mastic	[12 EA]	M/NF2		N	[+]	
MATERIALS: TYPE: S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect CONDITION: [if relevant] ND - No Damage D - Damage SD - Significant Damage		QUANTITY = Square Feet unless noted LF = Linear Feet; EA = each NQ = not quantified FRIABLE: Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo RESULT: 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting		COMMENTS: All Basement areas have concrete walls & metal deck ceilings unless otherwise noted Quantities of known and assumed ACMs are rough estimates only [+][FT] = Floor Tile ACM; Mastic non-ACM [+][M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes) 0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply 0,B[FT] = trace asbestos in floor tile, none in mastic layer [No Sample -09; no Group R]					
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis Survey Date(s): March 11 & 12, 2019		ES 36126 ES 31801		EAG OH42564 Page 13 of 14		

ASBESTOS INSPECTION DATA SHEET

Client: City of Lakewood			12525 Lake Ave; Lakewood, OH 44107		Building: Former Cove United Methodist Church				
Project: Pre-Renovation Asbestos Survey					Functional Space: Exterior, incl. Storage Shed				
LOCATION	Group	ID # OH42564	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Exterior	AB	61, 62	Window Caulking; Black					0	
	AG	59, 60	Door Caulking					0	
	AF	Assumed	Built-Up Roof, flat	NQ	M/NF1		N	[+]	
	AH	Assumed	Roofing Shingles	NQ	M/NF1		N	[+]	
Storage Shed	AE	57, 58	Masonite Board					0	
	AH	Assumed	Roofing Shingles	NQ	M/NF1		N	[+]	
<u>MATERIALS:</u> <u>TYPE:</u> S - Surfacing T - Thermal M - Miscellaneous NF1 - Non-friable Cat. I NF2 - Non-friable Cat. II N/S = not suspect <u>CONDITION:</u> [if relevant] ND - No Damage D - Damage SD - Significant Damage			<u>QUANTITY</u> = Square Feet unless noted LF = Linear Feet; EA = each NQ = not quantified <u>FRIABLE:</u> Y = Regulated ACM (RACM) by definition N = not RACM by definition NF1/NF2 may be friable due to condition or may become friable during reno/demo <u>RESULT:</u> 0 - Non-ACM [+] = ACM [no other assessment required] B = Verified by layering/point counting			<u>COMMENTS:</u> All Basement areas have concrete walls & metal deck ceilings unless otherwise noted Quantities of known and assumed ACMs are rough estimates only [+] [FT] = Floor Tile ACM; Mastic non-ACM [+] [M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes) 0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply 0,B[FT] = trace asbestos in floor tile, none in mastic layer [No Sample -09; no Group R]			
EA GROUP 7118 Industrial Park Blvd. Mentor, OH 44060-5314 (440) 951-3514			EAG Technician(s): Corey Falatic Scott Landis		ES 36126 ES 31801		EAG OH42564 Page 14 of 14		
			Survey Date(s): March 11 & 12, 2019						



APPENDIX B

Laboratory Analytical Report(s)



City of Lakewood
Dept of Planning & Development
Lakewood, OH 44107
Katelyn Milius

Client Project: Former UMC Property Surveys

EA Group Workorder Number: 190300156

Received on March 12, 2019

The following analytical report contains results as requested for samples submitted to EA Group. The results included in this report have been reviewed for compliance with the analytical methods indicated in this report. All data has been found to be compliant with accepted laboratory protocol, except as noted in the QC narrative. Industrial hygiene reports, air and/or surface concentrations results are based upon sampling information provided by the client. Industrial hygiene results will not be blank corrected. Analyst initials of REF indicate analysis performed at a subcontract facility.

If you have questions, comments or require further assistance regarding this report, please contact your client services representative or one of the individuals listed below.

Data or reporting:

Debbie Lauer - Lab Manager
dlauer@eagroupohio.com

Mike Herbert - General Manager
mherbert@eagroupohio.com

Sample tracking, supplies:

Linetta Brown - Sample Control
sreceiving@eagroupohio.com

Invoice Related:

Bonnie Renbarger - Office Manager
brenbarger@eagroupohio.com

Reproduction of this report is prohibited except in its entirety. Unless noted, soil, sludge and sediment results are reported on dry weight basis. The "Sample Reporting Limit" is based on the method used for analysis and does not refer to any regulatory limit. These results relate only to the items tested.



Laboratory Analytical Report

City of Lakewood

Dept of Planning & Development

12650 Detroit Ave.

Lakewood, OH 44107

Attention:
Katelyn Milius

Project Identification

Former UMC Property Surveys

OH42564

Purchase Order:

EA Group

Order Number

1903-00156

Carl R. Eggebraaten
Microscopist

Deborah L. Lauer
Laboratory Manager

March 27, 2019



Project Summary

The following analytical report contains the results as requested for samples submitted to EA Group. The results included in this report have been reviewed for compliance with the analytical methods indicated in this report. All data have been found to be compliant with accepted laboratory protocol. Exceptions, if any, are noted below.

Sample Summary

Sample Receive Date: 3/12/2019

EAG	Client	EAG	Client
<u>Sample Identification</u>	<u>Sample Identification</u>	<u>Sample Identification</u>	<u>Sample Identification</u>
190300156-01A	OH42564-01	190300156-02A	OH42564-02
190300156-03A	OH42564-03	190300156-04A	OH42564-04
190300156-05A	OH42564-05	190300156-06A	OH42564-06
190300156-07A	OH42564-07	190300156-08A	OH42564-08
190300156-09A	OH42564-09	190300156-10A	OH42564-10
190300156-11A	OH42564-11	190300156-12A	OH42564-12
190300156-13A	OH42564-13	190300156-14A	OH42564-14
190300156-15A	OH42564-15	190300156-16A	OH42564-16
190300156-17A	OH42564-17	190300156-18A	OH42564-18
190300156-19A	OH42564-19	190300156-20A	OH42564-20
190300156-21A	OH42564-21	190300156-22A	OH42564-22
190300156-23A	OH42564-23	190300156-24A	OH42564-24
190300156-25A	OH42564-25	190300156-26A	OH42564-26
190300156-27A	OH42564-27	190300156-28A	OH42564-28
190300156-29A	OH42564-29	190300156-30A	OH42564-30
190300156-31A	OH42564-31	190300156-32A	OH42564-32
190300156-33A	OH42564-33	190300156-34A	OH42564-34
190300156-35A	OH42564-35	190300156-36A	OH42564-36
190300156-37A	OH42564-37	190300156-38A	OH42564-38
190300156-39A	OH42564-39	190300156-40A	OH42564-40
190300156-41A	OH42564-41	190300156-42A	OH42564-42
190300156-43A	OH42564-43	190300156-44A	OH42564-44
190300156-45A	OH42564-45	190300156-46A	OH42564-46
190300156-47A	OH42564-47	190300156-48A	OH42564-48
190300156-49A	OH42564-49	190300156-50A	OH42564-50
190300156-51A	OH42564-51	190300156-52A	OH42564-52
190300156-53A	OH42564-53	190300156-54A	OH42564-54
190300156-55A	OH42564-55	190300156-56A	OH42564-56
190300156-57A	OH42564-57	190300156-58A	OH42564-58
190300156-59A	OH42564-59	190300156-60A	OH42564-60
190300156-61A	OH42564-61	190300156-62A	OH42564-62

Quality Control Narrative



Project Summary

The following analytical report contains the results as requested for samples submitted to EA Group. The results included in this report have been reviewed for compliance with the analytical methods indicated in this report. All data have been found to be compliant with accepted laboratory protocol. Exceptions, if any, are noted below.

Sample Summary

Sample Receive Date: 3/12/2019

EAG	Client	EAG	Client
<u>Sample Identification</u>	<u>Sample Identification</u>	<u>Sample Identification</u>	<u>Sample Identification</u>

This report contains data which was produced by a subcontracted laboratory

NVLAP Lab Code 101165-0 for Asbestos Analysis.

IATL, Inc.

9000 Commerce Parkway, Suite B

Mt. Laurel, NJ 08054

Reproduction of this report is prohibited except in its entirety. Unless noted, soil, sludge, and sediment results are reported on dry weight basis. The "Sample Reporting Limit" is based on the method used for analysis and does not refer to any regulatory limit.

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739809
Client No.: OH42564-01

Analyst Observation: Tan Floor Tile
Client Description:

Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6739809(L2)
Client No.: OH42564-01

Analyst Observation: Yellow Mastic
Client Description:

Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6739809(L3)
Client No.: OH42564-01

Analyst Observation: Tan Leveling Compound
Client Description:

Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6739810
Client No.: OH42564-02

Analyst Observation: Tan Floor Tile
Client Description:

Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6739810(L2)
Client No.: OH42564-02

Analyst Observation: Yellow Mastic
Client Description:

Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6739811
Client No.: OH42564-03

Analyst Observation: Brown Cove Base
Client Description:

Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

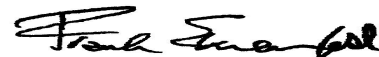
Date Received: 3/13/2019

Date Analyzed: 03/26/2019

Signature:

Analyst: Linda Price

Approved By:



Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739811(L2)	Analyst Observation: Tan Mastic	Location:
Client No.: OH42564-03	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739812	Analyst Observation: Brown Cove Base	Location:
Client No.: OH42564-04	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


Lab No.: 6739812(L2)	Analyst Observation: Tan Mastic	Location:
Client No.: OH42564-04	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

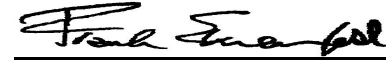
Lab No.: 6739813	Analyst Observation: White Ceiling Tile	Location:
Client No.: OH42564-05	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 3.4 Chrysotile</i>	70 Mineral Wool	24.8
<i>PC 1.8 Amosite</i>		

Lab No.: 6739814	Analyst Observation: White Ceiling Tile	Location:
Client No.: OH42564-06	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 3.9 Chrysotile</i>	80 Mineral Wool	14.9
<i>PC 1.2 Amosite</i>		

Lab No.: 6739815	Analyst Observation: White Ceiling Tile	Location:
Client No.: OH42564-07	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 3.5 Chrysotile</i>	80 Mineral Wool	15.4
<i>PC 1.1 Amosite</i>		

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 3/13/2019
Date Analyzed: 03/26/2019
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739816	Analyst Observation: White Ceiling Tile	Location:
Client No.: OH42564-08	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
PC 4.1 Chrysotile	75 Mineral Wool	19.8
PC 1.1 Amosite		

Lab No.: 6739817	Analyst Observation: Sample Not Received	Location:
Client No.: OH42564-09	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
Sample Not Received	Sample Not Received	


Lab No.: 6739818	Analyst Observation: Yellow Mastic	Location:
Client No.: OH42564-10	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
None Detected	None Detected	100

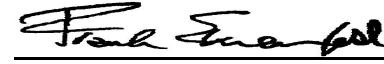
Lab No.: 6739819	Analyst Observation: White/Brown Drywall	Location:
Client No.: OH42564-11	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
None Detected	12 Cellulose	88

Lab No.: 6739819(L2)	Analyst Observation: White Joint Compound	Location:
Client No.: OH42564-11	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
PC 1.3 Chrysotile	None Detected	98.7

Lab No.: 6739820	Analyst Observation: White/Brown Drywall	Location:
Client No.: OH42564-12	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
None Detected	12 Cellulose	88

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 3/13/2019
Date Analyzed: 03/26/2019
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739820(L2)	Analyst Observation: White Joint Compound	Location:
Client No.: OH42564-12	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
PC 1.2 Chrysotile	None Detected	98.8

Lab No.: 6739821	Analyst Observation: White/Brown Drywall	Location:
Client No.: OH42564-13	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
None Detected	12 Cellulose	88


Lab No.: 6739821(L2)	Analyst Observation: White Joint Compound	Location:
Client No.: OH42564-13	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
PC 1.4 Chrysotile	None Detected	98.6

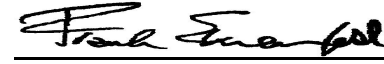
Lab No.: 6739822	Analyst Observation: Tan Floor Tile	Location:
Client No.: OH42564-14	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
PC 0.25 Chrysotile	None Detected	99.75

Lab No.: 6739822(L2)	Analyst Observation: Black Mastic	Location:
Client No.: OH42564-14	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
None Detected	None Detected	100

Lab No.: 6739823	Analyst Observation: Tan Floor Tile	Location:
Client No.: OH42564-15	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
PC Trace Chrysotile	None Detected	100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 3/13/2019
Date Analyzed: 03/26/2019
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739823(L2)	Analyst Observation: Black Mastic	Location:
Client No.: OH42564-15	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739824	Analyst Observation: Tan Cove Base	Location:
Client No.: OH42564-16	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


Lab No.: 6739824(L2)	Analyst Observation: Brown Mastic	Location:
Client No.: OH42564-16	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

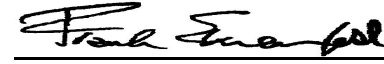
Lab No.: 6739825	Analyst Observation: Tan Cove Base	Location:
Client No.: OH42564-17	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739825(L2)	Analyst Observation: Brown Mastic	Location:
Client No.: OH42564-17	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739826	Analyst Observation: Tan Floor Tile	Location:
Client No.: OH42564-18	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
PC 1.3 Chrysotile	None Detected	98.7

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 3/13/2019
Date Analyzed: 03/26/2019
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739826(L2)	Analyst Observation: Black Mastic	Location:
Client No.: OH42564-18	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.3 Chrysotile</i>	None Detected	98.7

Lab No.: 6739827	Analyst Observation: Tan Floor Tile	Location:
Client No.: OH42564-19	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.2 Chrysotile</i>	None Detected	98.8


Lab No.: 6739827(L2)	Analyst Observation: Black/Tan Mastic/Leveling Compound	Location:
Client No.: OH42564-19	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 0.5 Chrysotile</i>	None Detected	99.5

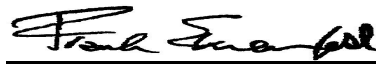
Lab No.: 6739828	Analyst Observation: Brown Cove Base	Location:
Client No.: OH42564-20	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739828(L2)	Analyst Observation: Tan Mastic	Location:
Client No.: OH42564-20	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739829	Analyst Observation: Brown Cove Base	Location:
Client No.: OH42564-21	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 3/13/2019
Date Analyzed: 03/26/2019
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739829(L2)	Analyst Observation: Brown Mastic	Location:
Client No.: OH42564-21	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739830	Analyst Observation: White Ceiling Tile	Location:
Client No.: OH42564-22	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 2.5 Chrysotile</i>	75 Mineral Wool	21
<i>PC 1.5 Amosite</i>		


Lab No.: 6739831	Analyst Observation: White Ceiling Tile	Location:
Client No.: OH42564-23	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 2.9 Chrysotile</i>	80 Mineral Wool	15.8
<i>PC 1.3 Amosite</i>		

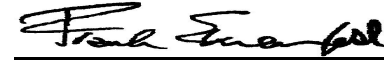
Lab No.: 6739832	Analyst Observation: Tan Floor Tile	Location:
Client No.: OH42564-24	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.1 Chrysotile</i>	None Detected	98.9

Lab No.: 6739832(L2)	Analyst Observation: Black/Tan Mastic/Leveling Compound	Location:
Client No.: OH42564-24	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.3 Chrysotile</i>	None Detected	98.7

Lab No.: 6739833	Analyst Observation: Tan Floor Tile	Location:
Client No.: OH42564-25	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.1 Chrysotile</i>	None Detected	98.9

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Date Received: 3/13/2019
Date Analyzed: 03/26/2019
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739833(L2)	Analyst Observation: Black/Tan Mastic/Leveling Compound	Location:
Client No.: OH42564-25	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.2 Chrysotile</i>	None Detected	98.8

Lab No.: 6739834	Analyst Observation: White/Brown Ceiling Tile	Location:
Client No.: OH42564-26	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	90 Cellulose	10


Lab No.: 6739834(L2)	Analyst Observation: Brown Mastic	Location:
Client No.: OH42564-26	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

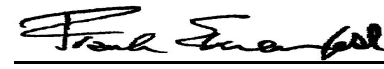
Lab No.: 6739835	Analyst Observation: White/Brown Ceiling Tile	Location:
Client No.: OH42564-27	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	95 Cellulose	5

Lab No.: 6739835(L2)	Analyst Observation: Brown Mastic	Location:
Client No.: OH42564-27	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739836	Analyst Observation: Red Floor Tile	Location:
Client No.: OH42564-28	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

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Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739836(L2)	Analyst Observation: Tan Mastic	Location:
Client No.: OH42564-28	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739837	Analyst Observation: Red Floor Tile	Location:
Client No.: OH42564-29	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


Lab No.: 6739837(L2)	Analyst Observation: Black Mastic	Location:
Client No.: OH42564-29	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

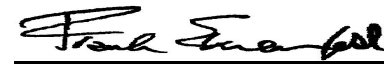
Lab No.: 6739838	Analyst Observation: Tan Cove Base	Location:
Client No.: OH42564-30	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739838(L2)	Analyst Observation: Brown Mastic	Location:
Client No.: OH42564-30	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739839	Analyst Observation: Tan Cove Base	Location:
Client No.: OH42564-31	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

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Signature: 
Analyst: Linda Price

Approved By: 
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Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739839(L2)	Analyst Observation: Brown Mastic	Location:
Client No.: OH42564-31	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739840	Analyst Observation: Off-White Floor Tile	Location:
Client No.: OH42564-32	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.2 Chrysotile</i>	None Detected	98.8


Lab No.: 6739840(L2)	Analyst Observation: Black Mastic	Location:
Client No.: OH42564-32	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.1 Chrysotile</i>	None Detected	98.9

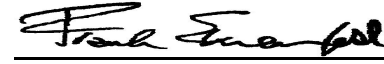
Lab No.: 6739841	Analyst Observation: Off-White Floor Tile	Location:
Client No.: OH42564-33	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.3 Chrysotile</i>	None Detected	98.7

Lab No.: 6739841(L2)	Analyst Observation: Black Mastic	Location:
Client No.: OH42564-33	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 0.75 Chrysotile</i>	None Detected	99.25

Lab No.: 6739842	Analyst Observation: Yellow Mastic/Fibrous	Location:
Client No.: OH42564-34	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	25 Synthetic	75

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Approved By: 
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Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060


Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

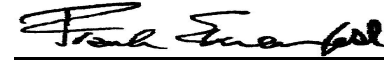
Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739843 Client No.: OH42564-35	Analyst Observation: Yellow Mastic/Fibrous Client Description:	Location: Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Synthetic	<u>Percent Non-Fibrous Material:</u> 80
Lab No.: 6739844 Client No.: OH42564-36	Analyst Observation: Brown/Yellow Mastic Client Description:	Location: Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6739845 Client No.: OH42564-37	Analyst Observation: Yellow Mastic Client Description:	Location: Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6739846 Client No.: OH42564-38	Analyst Observation: White/Tan Ceiling Tile Client Description:	Location: Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Cellulose 20 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 40
Lab No.: 6739847 Client No.: OH42564-39	Analyst Observation: White/Tan Ceiling Tile Client Description:	Location: Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Cellulose 20 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 40
Lab No.: 6739848 Client No.: OH42564-40	Analyst Observation: White Floor Tile Client Description:	Location: Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Date Received: 3/13/2019
Date Analyzed: 03/26/2019
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739848(L2)
Client No.: OH42564-40

Analyst Observation: Black Mastic
Client Description:


Location:
Facility:

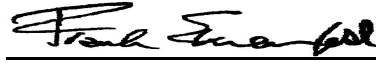
Percent Asbestos:
PC 1.2 Chrysotile

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.8

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Date Received: 3/13/2019
Date Analyzed: 03/26/2019
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739849
Client No.: OH42564-41

Percent Asbestos:
None Detected

Analyst Observation: White Floor Tile
Client Description:

Percent Non-Asbestos Fibrous Material:
None Detected

Location:
Facility:
Percent Non-Fibrous Material:
100

Lab No.: 6739849(L2)
Client No.: OH42564-41

Percent Asbestos:
None Detected

Analyst Observation: Yellow Mastic
Client Description:
Percent Non-Asbestos Fibrous Material:
None Detected

Location:
Facility:
Percent Non-Fibrous Material:
100

Lab No.: 6739849(L3)
Client No.: OH42564-41

Percent Asbestos:
PC 1.4 Chrysotile

Analyst Observation: Black Mastic
Client Description:
Percent Non-Asbestos Fibrous Material:
None Detected

Location:
Facility:
Percent Non-Fibrous Material:
98.6

Lab No.: 6739850
Client No.: OH42564-42

Percent Asbestos:
None Detected

Analyst Observation: White Cove Base
Client Description:
Percent Non-Asbestos Fibrous Material:
None Detected

Location:
Facility:
Percent Non-Fibrous Material:
100

Lab No.: 6739850(L2)
Client No.: OH42564-42

Percent Asbestos:
None Detected

Analyst Observation: Yellow Mastic
Client Description:
Percent Non-Asbestos Fibrous Material:
None Detected

Location:
Facility:
Percent Non-Fibrous Material:
100

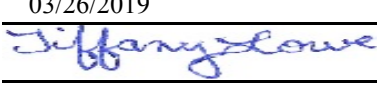
Lab No.: 6739851
Client No.: OH42564-43

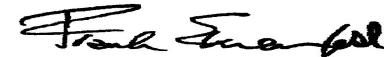
Percent Asbestos:
None Detected

Analyst Observation: White Cove Base
Client Description:
Percent Non-Asbestos Fibrous Material:
None Detected

Location:
Facility:
Percent Non-Fibrous Material:
100

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Date Received: 3/13/2019
Date Analyzed: 03/26/2019
Signature: 
Analyst: Tiffany Lowe

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Client: EAG482

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739851(L2)	Analyst Observation: Yellow Mastic	Location:
Client No.: OH42564-43	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739852	Analyst Observation: Green Sink Undercoating	Location:
Client No.: OH42564-44	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

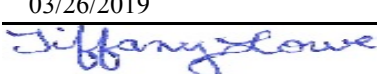
Lab No.: 6739853	Analyst Observation: Green Sink Undercoating	Location:
Client No.: OH42564-45	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

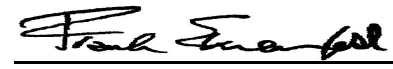
Lab No.: 6739854	Analyst Observation: White Drywall	Location:
Client No.: OH42564-46	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	5 Cellulose 5 Fibrous Glass	90

Lab No.: 6739854(L2)	Analyst Observation: White Joint Compound	Location:
Client No.: OH42564-46	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739855	Analyst Observation: White Drywall	Location:
Client No.: OH42564-47	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	5 Cellulose 5 Fibrous Glass	90

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Date Received: 3/13/2019
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Approved By: 
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Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739855(L2)	Analyst Observation: White Joint Compound	Location:
Client No.: OH42564-47	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739856	Analyst Observation: White Drywall	Location:
Client No.: OH42564-48	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	5 Cellulose 5 Fibrous Glass	90

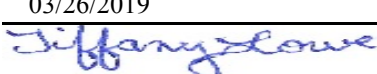
Lab No.: 6739856(L2)	Analyst Observation: White Joint Compound	Location:
Client No.: OH42564-48	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

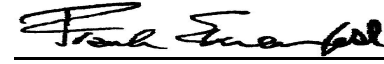
Lab No.: 6739857	Analyst Observation: Red Floor Tile	Location:
Client No.: OH42564-49	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.3 Chrysotile</i>	None Detected	98.7

Lab No.: 6739857(L2)	Analyst Observation: Brown Mastic	Location:
Client No.: OH42564-49	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739858	Analyst Observation: Red Floor Tile	Location:
Client No.: OH42564-50	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.2 Chrysotile</i>	None Detected	98.8

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Date Received: 3/13/2019
Date Analyzed: 03/26/2019
Signature: 
Analyst: Tiffany Lowe

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739858(L2)
Client No.: OH42564-50

Analyst Observation: Brown Mastic
Client Description:

Location:
Facility:
Percent Non-Fibrous Material:
100

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Lab No.: 6739859
Client No.: OH42564-51

Analyst Observation: White Drywall
Client Description:

Location:
Facility:
Percent Non-Fibrous Material:
95

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
5 Cellulose

Lab No.: 6739860
Client No.: OH42564-52


Analyst Observation: White Drywall
Client Description:

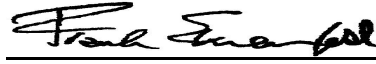
Location:
Facility:
Percent Non-Fibrous Material:
95

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
5 Cellulose

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Signature: 
Analyst: Tiffany Lowe

Approved By: 
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Laboratory Director

CERTIFICATE OF ANALYSIS

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7118 Industrial Park
Mentor OH 44060

Report Date: 3/26/2019
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Project: OH42564
Project No.: 190-00156

Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739861	Analyst Observation: White/Tan Ceiling Tile	Location:
Client No.: OH42564-53	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	20 Cellulose 50 Mineral Wool	30

Lab No.: 6739861(L2)	Analyst Observation: Brown Mastic	Location:
Client No.: OH42564-53	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


Lab No.: 6739862	Analyst Observation: White/Tan Ceiling Tile	Location:
Client No.: OH42564-54	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	15 Cellulose 50 Mineral Wool	35

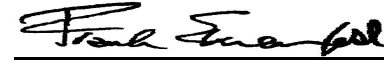
Lab No.: 6739862(L2)	Analyst Observation: Brown Mastic	Location:
Client No.: OH42564-54	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6739863	Analyst Observation: White/Tan Ceiling Tile	Location:
Client No.: OH42564-55	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	25 Cellulose 50 Mineral Wool	25

Lab No.: 6739864	Analyst Observation: White/Tan Ceiling Tile	Location:
Client No.: OH42564-56	Client Description:	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	20 Cellulose 50 Mineral Wool	30

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 3/13/2019
Date Analyzed: 03/26/2019
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060


Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

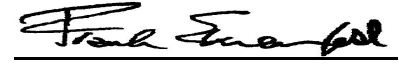
Client: EAG482

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6739865 Client No.: OH42564-57	Analyst Observation: Black/Brown Tar Paper Client Description:	Location: Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 85 Cellulose	<u>Percent Non-Fibrous Material:</u> 15
Lab No.: 6739866 Client No.: OH42564-58	Analyst Observation: Black/Brown Tar Paper Client Description:	Location: Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Cellulose	<u>Percent Non-Fibrous Material:</u> 20
Lab No.: 6739867 Client No.: OH42564-59	Analyst Observation: Brown Caulk Client Description:	Location: Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 99
Lab No.: 6739868 Client No.: OH42564-60	Analyst Observation: Brown Caulk Client Description:	Location: Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6739869 Client No.: OH42564-61	Analyst Observation: Brown Caulk Client Description:	Location: Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6739870 Client No.: OH42564-62	Analyst Observation: Brown Caulk Client Description:	Location: Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 3/13/2019
Date Analyzed: 03/26/2019
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Client: EAG482

Report Date: 3/26/2019
Report No.: 585544 - PLM
Project: OH42564
Project No.: 190-00156

Appendix to Analytical Report

Customer Contact: Mike Herbert
Method: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: wchampion@iatl.com
iATL Account Representative: Cassie Doherty
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)

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Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

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3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

*With advance notice and confirmation by the laboratory.

**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

FIELD REQUEST FOR LABORATORY ANALYSIS

Company Name:

City of Lakewood

Address:

12650 Detroit Ave

Lakewood OH 44107

Attention:

Katelyn Milius

Customer Number:

0702207

Results Needed By:

Normal:

☒

RUSH:

Priority:

(confirm w/ lab)

Date:

Time:

Telephone:

Fax No:

e-mail:

Sampled by:

C. Feltic / S. Lardis

Project Name:

Former UMC Property
Surveys

Project Number OH

42564

Rush Authorized by:

Project Category:

ASB

Special Billing/Reporting:

Is this a VAP project requiring VAP lab analysis?

Yes

No

☒

Internal Contact:

Bowen

CHAIN OF CUSTODY

Relinquished by

Received by

Name

Corey Plotie

Date/Time

03/12/19
1515

Name

L. Brown

Date/Time

3-12-19 1515

EA GROUP CONSULTING DIVISION

REQUEST FOR LABORATORY ANALYSIS - ASBESTOS BULK SAMPLING LOG

Page 1 of 2

Sample No.	Homog. Group	1	2
0442564-01	A	X	
-02	B		
-03	C		
-04	D		
-05	E		
-06	F		
-07			
-08			
-09			
-10			
-11			
-12			
-13			
-14			
-15			
-16			
-17			
-18			
-19			
-20			

Sample No.	Homog. Group	1	2
0442564-21	J	X	
-22	K		
-23	L		
-24	M		
-25	N		
-26	O		
-27	P		
-28	Q		
-29	R		
-30	S		
-31	T		
-32			
-33			
-34			
-35			
-36			
-37			
-38			
-39			
-40			

Sample No.	Homog. Group	1	2
0442564-41	T	X	
-42	V		
-43	W		
-44	X		
-45	Y		
-46	Z		
-47			
-48			
-49			
-50			
-51			
-52			
-53			
-54			
-55			
-56			
-57			
-58			
-59			
-60			

Analytes: 1 PLM (standard)

Hygienist: C. Feltz / S. Lund

Comments:

2 PLM (full)

Point Count:

or ALL

(enter # or circle ALL)

Sampling Date: 03/11/14 + 03/12/14

Page 2 of 2

[illegible][illegible][illegible]

Analytes:

1 PLM (standard)

1 PLM (standard) *C. albicans* 2 PLM

Hygienist:

Sampling Date:

2 PLM (full)

Point Count:

or ALL

(enter # or circle ALL)

03/11/19 + 03/12/19

Comments: